

CLAIMS

1. Screwing tool (1) having a grip (2) and a shank (3), which is received removably in a cavity (4) open toward an end of the grip (2) and which at its free end has an actuating portion (5), the shank (3) being retained in a position of use such that it is fixed in terms of rotation on the grip and cannot slide in the axial direction, by means of a retaining element (14) associated with the grip (2), which retaining element (14) can be displaced into a removal position by displacement of an actuating member (6) in order for the shank to be removed from the grip (2), characterized in that in a storage position a large part of the shank (3) is located in the cavity (4), where it is held by means of holding means (H), which holding means (H) are releasable, so that that part of the shank (3) which is located within the cavity (4), apart from a holding portion (H) of the shank (3) associated with the fixed end of the shank, can be moved out into the position of use onto a stop (A) by being forced out of the cavity (4).

2. Screwing tool according to Claim 1 or in particular according thereto, characterized in that the actuating member associated with the grip (2) can be displaced into a release position in order for the holding means (H) to be released, and in particular takes the form of a sleeve (6).

3. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized in that the stop (A) is formed by the retaining element (14) which can be moved into the removal position by displacement of the actuating member (6) to beyond the release position.

4. Screwing tool according to one or more of the preceding claims or in particular according thereto,

characterized in that the stop (A) can be moved into its retaining position under spring loading.

5. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized in that the force required to extend the shank (3) into the position of use is applied by a spring (24), which is stressed as the shank (3) moves into the storage position and is supported against the base of the cavity (4).

6. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized in that the stop (A) or the retaining element (14) is formed by at least one blocking ball (14) which enters a blocking recess at the shank end.

7. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized in that the blocking ball (14) is located in a window (12) in the cavity wall and interacts with a locking sleeve (15) which is spring-loaded in the axial direction.

8. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized in that the blocking ball (14), which is located in the window (12) in the storage position and while the shank (3) is being extended, is spring-loaded in the radial direction by a boundary edge (30), in particular an inclined boundary edge (30), of the locking sleeve (15).

9. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized in that the blocking recess is an annular neck (31) with an axial length which is greater than the diameter of the blocking ball.

10. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized in that the holding means (H) is at least one latching ball (13) which interacts with a corner cutout (29) of the polygonal shank (3).

11. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized in that the latching ball (13) is acted on by an oblique flank (28) of an actuating sleeve (6) which is spring-loaded in the axial direction.

12. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized in that the latching ball (13), both in the storage position and in the position of use, is located in a corner clearance (29) of the shank (3), such that it can be released by axial displacement of the actuating sleeve (6), in order to axially retain the shank (3).

13. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized by a rear stop shoulder (20') of the actuating sleeve (6) which, during axial displacement of the actuating sleeve (6), slides the locking sleeve (15) from its locking position into a release position which allows the blocking ball (14) to be displaced in the radial direction.

14. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized in that the stop shoulder (20') is formed by an annular portion (20) which has a compression spring (16) associated with the actuating sleeve (6) engaging over it and into the cavity (21) of which the blocking ball (14) can be displaced in the release position.

15. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized in that the locking sleeve (15), in the locking position, is supported against an annular collar (18) which is the abutment for the actuating sleeve spring (16).

16. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized in that the grip cavity (4) is defined by a tube (7) which receives the shank (3) and has a polygonal cavity (9) that provides the windows (11, 12) for the blocking ball (14) and the latching ball (13).

17. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized in that the diameter of the latching ball (13) is smaller than the diameter of the blocking ball (14).

18. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized in that the shank (3) can be completely removed from the grip cavity (4) when the stop (A) has been deactivated.

19. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized in that the actuating sleeve (6), as it is being displaced out of its locking position, encounters a perceptible resistance after it has reached the release position of the latching ball (13) but before it has reached the release position of the blocking ball (14).

20. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized in that the resistance is audibly overcome.

21. Screwing tool according to one or more of the preceding claims or in particular according thereto, characterized in that the resistance is provided by a collar (34) of the actuating sleeve (6), which collar
5 moves onto a circlip (32) located in a groove (33) in the bush (7) which defines the cavity (4).

22. Screwing tool according to one or more of the preceding claims or in particular according thereto,
10 characterized in that the actuating sleeve (6) has to be rotated in order to overcome the resistance.

23. Screwing tool according to one or more of the preceding claims or in particular according thereto,
15 characterized in that the bush (7) which defines the cavity (4) forms a connecting link (35) in which a pin (36) fixed to the grip engages.